Joseph Matthew Clampitt

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Education

Ph.D. Physics, University of Pennsylvania, May 2014

Advisor: Bhuvnesh Jain, Department of Physics and Astronomy Thesis: Weak Lensing and Modified Gravity of Cosmic Structure

B.S. Physics (Honors), Purdue University, 2009 Summa Cum Laude

Research Experience

Postdoctoral Researcher, Advisor: Bhuvnesh Jain 2014—present

University of Pennsylvania

Research Assistant, Advisor: Bhuvnesh Jain 2010—2014

University of Pennsylvania

Undergraduate Research Assistant, Advisor: Ian Shipsey 2007—2009

Purdue University

Research Experience for Undergraduates, Advisor: Jose Lazo-Flores Summer 2008

CERN (European Council for Nuclear Research)

Research Experience for Undergraduates, Advisor: Mark Messier Summer 2007

Indiana University

Publications

Clampitt, Jain "Lensing Measurements of the Ellipticity of LRG Dark Matter Halos" MNRAS accepted, arxiv:1506.03536

Clampitt, Miyatake, Jain, Takada, "Detection of Stacked Filament Lensing Between SDSS Luminous Red Galaxies" MNRAS accepted, arXiv:1402.3302

Clampitt, Jain, Sanchez "Clustering and Bias Measurements of SDSS Voids" MNRAS 456, 4425 (2016)

The Dark Energy Survey Collaboration, et al. "Cosmology from Cosmic Shear with DES Science Verification Data" arxiv:1507.05552

Park, et al. "Joint Analysis of Galaxy-Galaxy Lensing and Galaxy Clustering: Methodology and Forecasts for DES" arxiv:1507.05353

Clampitt, Jain "Lensing Measurements of the Mass Distribution in SDSS Voids" MNRAS 454, 3357 (2015)

Lam, Clampitt, Cai, Li "Voids in Modified Gravity Reloaded: Eulerian Void Assignment" MNRAS 450, 3319 (2015)

Melchior, et al. "Mass and galaxy distributions of four massive galaxy clusters from Dark Energy Survey Science Verification data" MNRAS 449, 2219 (2015)

Clampitt, Cai, Li "Voids in modified gravity: excursion set predictions" MNRAS 431, 749 (2013)

Clampitt, Jain, Khoury "Halo scale predictions of symmetron modified gravity" JCAP 1, 30 (2012)

Invited Talks and Sessions Coordinated Coordinated session at Dark Energy Survey Madrid meeting "Galaxy-galaxy Lensing Projects in Year 1 Data"	October 2015
Invited talk at Kavli IPMU, Chiba, Japan "Halo Ellipticity with Weak Lensing"	July 2015
Invited talk at Princeton University, Princeton, NJ "Lensing Measurements of SDSS Voids"	December 2014
Berkeley Cosmology Seminar, Berkeley, CA "Lensing Measurements of SDSS Voids and Filaments"	October 2014
Coordinated session at Dark Energy Survey (DES) Sussex meeting "Galaxy-galaxy Lensing in Science Verification Data"	October 2014
Invited talk at Cosmic Voids workshop, Columbus, OH "Weak Lensing Mass Profiles of SDSS Voids	August 2014
Invited talk at American Physical Society meeting, Savannah, GA "Weak Lensing with the Dark Energy Survey	April 2014
Coordinated session at Dark Energy Survey (DES) Barcelona meeting "Galaxy-galaxy Lensing in Science Verification Data	October 2013
Coordinated session at DES Lensing plus Structure meeting, Fermilab "Galaxy-galaxy Lensing in Simulations"	May 2013
Coordinated session at DES Lawrence Berkeley National Lab meeting "Galaxy-galaxy Lensing in Early Cluster Data"	April 2013
Co-coordinated two sessions at DES Texas A&M meeting "Topics in Galaxy-galaxy Lensing" and "Combined Probes: Lensing plus Structure"	December 2012
Other Talks and Posters	
Durham University: Ripples in the Cosmos "Voids in Modified Gravity: Excursion Set Predictions"	July 2013
Dark Energy Survey Munich meeting "Galaxy-galaxy Lensing: DES Forecasts and Baryon Systematics"	May 2012
East Coast Gravity Meeting "Halo Scale Predictions of Symmetron and Chameleon Gravity"	April 2012
CERN Summer Student presentations, Meyrin, Switzerland "Displays for the CMS Beam Conditions and Radiation Monitoring System"	July 2008
Purdue Undergraduate Research Poster Symposium "Image Distortions Due to Variations in Camera Flatness for the Large Synoptic Survey Telescope"	March 2008
Argonne Undergraduate Research Symposium "Transfer Matrix Method for Using the NovA Surface Detector to Measure the Neutrino Spectrum at MINOS"	November 2007
Purdue Undergraduate Research Poster Symposium "Testing the Compact Muon Solenoid Forward Pixel Detector" Winner of College of Science Dean's Award	March 2007

Service and Awards

Refereed for journals JCAP and MNRAS	2015 – present
Coordinated DES galaxy-galaxy lensing subgroup	2013 – present
Zaccheus Daniel Foundation for Astronomical Science Fellowship	2012—2013
Organized University of Pennsylvania weekly Astrophysics Journal Club	2011-2012
College of Science Dean's Award, Purdue Undergraduate Poster Symposium	2007

Teaching Experience

Guest lecturer, University of Pennsylvania	2013
Introduction to Astrophysics II	

Teaching Assistant, University of Pennsylvania 2009—2010 General Physics Lab: Mechanics, Heat, and Sound

Undergraduate Teaching Assistant, Purdue University 2006 Matter and Interactions: Mechanics

References

Dr. Bhuvnesh Jain

Edmund J. and Louise W. Kahn Term Chair in the Natural Sciences Professor, Department of Physics and Astronomy University of Pennsylvania 209 South 33rd St.
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Dr. Masahiro Takada

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Dr. Sarah Bridle

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